

Claims:

1. A mixing apparatus for mixing livestock feed, said apparatus comprising;
a container for the reception of feed;
said container including:
 - a floor,
 - a wall extending away from said floor, the arrangement being such that substantially all of said wall is disposed above said floor, said wall defining a top opening disposed remote from said floor for the reception therethrough of the feed, the arrangement being such that said floor and said wall define therebetween an enclosure for the feed received through the top opening;
 - an auger disposed within said enclosure, said auger having an axis of rotation extending substantially vertically through the floor,
 - said wall further including a first side and a second side positioned on opposing sides of the enclosure,
 - each of said sides being disposed at dissimilar angles relative to said floor.
2. The mixing apparatus of claim 1 wherein said first side is disposed substantially vertical relative to said floor.
3. The mixing apparatus of claim 1 wherein said first side and said second side are not symmetrical.
4. The mixing apparatus of claim 1 further including;
 - an undercarriage disposed adjacent and underneath said floor,
 - said undercarriage including;
 - a hitch,
 - a set of wheels,
 - a floor centerline parallel to a direction of travel of said wheels,
 - said hitch being disposed off-center from said floor centerline.
5. The mixing apparatus of claim 1, wherein an absolute value of a difference between the angles of the first and second sides comprises a range of 10 to 30 degrees.

6. The mixing apparatus of claim 5, wherein the range comprises 15 to 25 degrees.
7. A mixing apparatus for mixing livestock feed, said apparatus comprising;
a container for the reception of feed;
said container including:
 - a floor,
 - a wall extending away from said floor, the arrangement being such that substantially all of said wall is disposed above said floor, said wall defining a top opening disposed remote from said floor for the reception therethrough of the feed, the arrangement being such that said floor and said wall define therebetween an enclosure for the feed received through the opening;
 - an auger disposed within said enclosure, said auger having an axis of rotation extending substantially vertically through the floor,
 - said wall further including a first end and a second end positioned on opposing sides of the enclosure,
 - said wall further including a first side and a second side positioned on opposing sides of the enclosure,
 - a first angle between said second side and said axis of rotation being greater than a second angle between said first side and said axis of rotation.
8. The mixing apparatus of claim 5 wherein said first side is disposed substantially vertical relative to said floor.
9. The mixing apparatus of claim 5 wherein said first side and said second side are not symmetrical.
10. The mixing apparatus of claim 5 wherein a discharge opening is located in said second side of said wall and adjacent to said floor,
said discharge opening being in a position offcenter in said second side.
11. The mixing apparatus of claim 8 wherein said discharge opening is adjacent to said first end.
12. The mixing apparatus of claim 5 further including:

an undercarriage disposed adjacent and underneath said floor,
said undercarriage including;

a hitch,

a set of wheels,

a floor centerline parallel to a direction of travel of said wheels,
said hitch being disposed off-center from said floor centerline.

13. The mixing apparatus of claim 5, wherein an absolute value of a difference between the first and second angles comprises a range of 10 to 30 degrees.
14. The mixing apparatus of claim 13, wherein the range comprises 15 to 25 degrees.
15. A mixing apparatus for mixing livestock feed, said apparatus comprising:
a container for the reception of feed;
said container including:
a floor,
a wall extending away from said floor, the arrangement being such that substantially all of said wall is disposed above said floor, said wall defining a top opening disposed remote from said floor for the reception therethrough of the feed, the arrangement being such that said floor and said wall define therebetween an enclosure for the feed received through the opening;
an auger disposed within said enclosure, said auger having an axis of rotation extending substantially vertically through the floor,
said wall further including a first side and a second side positioned on opposing sides of the enclosure,
the distance between said auger and said first side of said wall being shorter than the distance between said auger and said second side of said wall.
16. The mixing apparatus of claim 11 wherein said first side is disposed substantially vertical relative to said floor.
17. The mixing apparatus of claim 11 wherein said first side and said second side are not symmetrical.

18. The mixing apparatus of claim 11 further including:

an undercarriage disposed adjacent and underneath said floor,

said undercarriage including:

a hitch,

a set of wheels,

a floor centerline parallel to a direction of travel of said wheels,

said hitch being disposed off-center from said floor centerline.

19. The mixing apparatus of claim 11, wherein the distance between said auger and said first side of said wall is shorter than the distance between said auger and said second side of said wall by 0.5 to 5 percent.